

Ship 03/11

Work Order ID 142106

142106

Page 1

Thursday, February 25, 2016 12:22:24 PM

Item ID: D212-803-215

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 3/11/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date: 16-2-25

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9728	A			DAS 6 9-89					
IIN-D212-803	D								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy blue file and type labels per PPP D212-803-215 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									

MS 16-02-26

MAR 19 2016

FEB 26 2016

DAS 6 28
9-89 9-89

Picklist Print

Thursday, February 25, 2016 12:22:37 PM

Work Order ID: 142106

142106

Parent Item: D212-803-215

D212-803-215

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

27ET51-T

Purchased

No

Each

4.0000

27ET51-T

Switch

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST280

4

m130972

2

m132951

2

30-037-26

Purchased

No

Each

0.0000

30-037-26

Diode Assembly

**

DAS
6
9-89
DAS
28
9-89

30-037-3

Purchased

No

Each

4.0000

30-037-3

Diode Assembly

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST580

4

m133270

4

AN961-6T

NAS1149F0463P

Purchased

No

Each

144.0000

AN961-6T

Washer

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST321

144

123314

144

51MXV-5-J

Purchased

No

Each

1.0000

51MXV-5-J

Switch

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST583

1

m133107

1

DAS
27
9-89

MAR 01 2016

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Work Order ID: 142106

142106

Parent Item: D212-803-215

D212-803-215

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

M39029/31-240

Purchased

No

Each

8.0000

M39029/31-240

Pin

DAS
27
9-89

Location

ST565

m134112

Loc Qty

8

8

Each

Loc Code

**

13 x M134380

DAS
6
9-89
DAS
28
9-89

M39029/32-259

Purchased

No

M39029/32-259

Socket

DAS
27
9-89

Location

ST565

m134112

Loc Qty

10

10

Each

Loc Code

**

10 x M134386

DAS
6
9-89
DAS
28
9-89

M39029/31-228

Purchased

No

M39029/31-228

Pin

DAS
27
9-89

Location

ST556

M127949

Loc Qty

30

30

Each

Loc Code

**

2

DAS
6
9-89

M39029/32-247

Purchased

No

M39029/32-247

Socket

DAS
27
9-89

Location

ST556

M127949

Loc Qty

3

3

Each

Loc Code

**

19381

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

MAR 04 2016

MAR 01 2016

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Picklist Print

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Page 5

Work Order ID: 142106

142106

Parent Item: D212-803-215

D212-803-215

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L06

Purchased

No

Each

164.0000

MS21042L06

Nut

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST303

164

m134063

64

m134294

100

MS21042L3

Purchased

No

Each

1,695.000

MS21042L3

Nut

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

FP001

163

m133790

163

GA

130

m133790

130

ST304

1402

m134039

1402

MS21044N04

Purchased

No

Each

43.0000

MS21044N04

Nut

**

DAS
6
9-89

DAS
28
9-89

MAR 01 2016

Location

Loc Qty

Loc Code

Return2015

2

m125445

2

ST302

39

m132677

39

ST304

2

m125445

2

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Page 6

Thursday, February 25, 2016 12:22:37 PM

Work Order ID: 142106

142106

Parent Item: D212-803-215

D212-803-215

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

MS21919WDG10 Purchased No

Each 21.0000

DAS
6
9-89

MS21919WDG10

**

DAS
28
9-89

Clamp

Location

Loc Qty

Loc Code

ST293

21

m128401

1

m128993

20

Each

9.0000

**

DAS
6
9-89

DAS
28
9-89

MS21919WDG19 Purchased No

MS21919WDG19

Clamp

Location

Loc Qty

Loc Code

ST291

9

m126741

1

m133988

8

Each

1.0000

**

DAS
6
9-89

DAS
28
9-89

MS24523-27 Purchased No

MS24523-27

Switch

Location

Loc Qty

Loc Code

ST290

1

m133990

1

Each

84.0000

**

DAS
6
9-89

DAS
28
9-89

MS24693-S7 Purchased No

MS24693-S7

Screw

Location

Loc Qty

Loc Code

Return2015

2

m129278

2

ST287

82

m129278

82

MAR 01 2016

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Work Order ID: 142106

142106

Parent Item: D212-803-215

D212-803-215

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

MS24693-24R

Purchased

No

Each

100.0000

**

DAS
6
9-89

MS24693-24R

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

32

m133790

32

ST288

68

m132256

68

Each

358.0000

**

MS27039-1-07

Purchased

No

MS27039-1-07

Screw

Location

Loc Qty

Loc Code

GA

334

125654

334

ST281

24

m127813

24

Each

0.0000

**

DAS
6
9-89

DAS
27
9-89

MS27212-1-3

Purchased

No

MS27212-1-3

Terminal Board

DAS
27
9-89

MS3126E16-99P

Purchased

No

MS3126E16-99P

Socket

DAS
27
9-89

MS3120E16-99S

Purchased

No

MS3120E16-99S

Socket

Location

Loc Qty

Loc Code

ST

1

m128898

1

ST272

1

m133107

1

DAS
27
9-89

DAS
28
9-89

DAS
6
9-89

DAS
6
9-89

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Work Order ID: 142106

142106

Parent Item: D212-803-215

D212-803-215

Parent Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412

Start Date: 3/10/2016

Required Date: 3/11/2016

Start Qty: 1.00

Required Qty: 1.00

MS3373-A1 Purchased No

Each 0.0000

MS3373-A1

Strip

NAS1149D0363J

Purchased No

Each 1,122.000

NAS1149D0363.J

Washer

Location

Loc Qty

Loc Code

GA	64	
m130799	64	
ST263	1058	
m133932	58	
m134055	1000	

2

DAS
6
9-89

DAS
28
9-89

134370

MAR 04 2016

MAR 01 2016

DAS
27
9-89

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DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D212-803 REV. D AND INSTRUCTIONS
FOR CONTINUED AIRWORTHINESS ICA-D212-803 REV. 3 OR LATER APPROVED REVISION
REF. FAA STC: SR02233SE

1.0 PURPOSE

The purpose of the DSI is to amend the installation of the D4410-041/-043/-045 Co-Pilot Collective Head Assembly and the D5046-041/-043/-045 Co-Pilot Collective Head Assembly on the Collective Stick of the Bell 205/212/412 model aircraft for DXXX-803-0XX at CHG 003 and later and the DXXX-803-1XX at CHG 002 and later.

2.0 PROCEDURE

2.1 To install DXXX-041/-043/-045 Co-Pilot Collective Head Assembly onto Collective Stick Assembly (Bell p/n 205-001-117-1 for 205, Bell p/n 212-001-117-1 for 212/412 and Bell p/n 212-001-171-001 for Eagle Single), position the Head Assembly on the Collective Stick Assembly so that it is angled away from the door and does not contact the pilot's leg. Transfer drill the mounting hole on the Collective Stick Assembly to the desired location on the neck of the DXXX-041/-043/-045 Collective Head.

2.2 To adjust the position of the DXXX-041/-043/-045 Collective Head Assembly, it is acceptable to remove $\frac{1}{2}$ " to $\frac{3}{4}$ " off of the neck as desired.

2.3 Wet the Collective Head Assembly with Proseal 890 or equivalent and mount using Pin (p/n MS171539 on DXXX-041 Collective Head or p/n MS171599 on DXXX-043/-045 Collective Head) per Figure 1. Apply Aircraft Primer to Pin.

3.0 WEIGHT AND BALANCE

Aircraft Weight and Balance are not affected by this change.

A	NEW ISSUE	VS	15.06.24
REV.	DESCRIPTION	BY	DATE
DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 1 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.		LH PIC INSTALLATION	NTS
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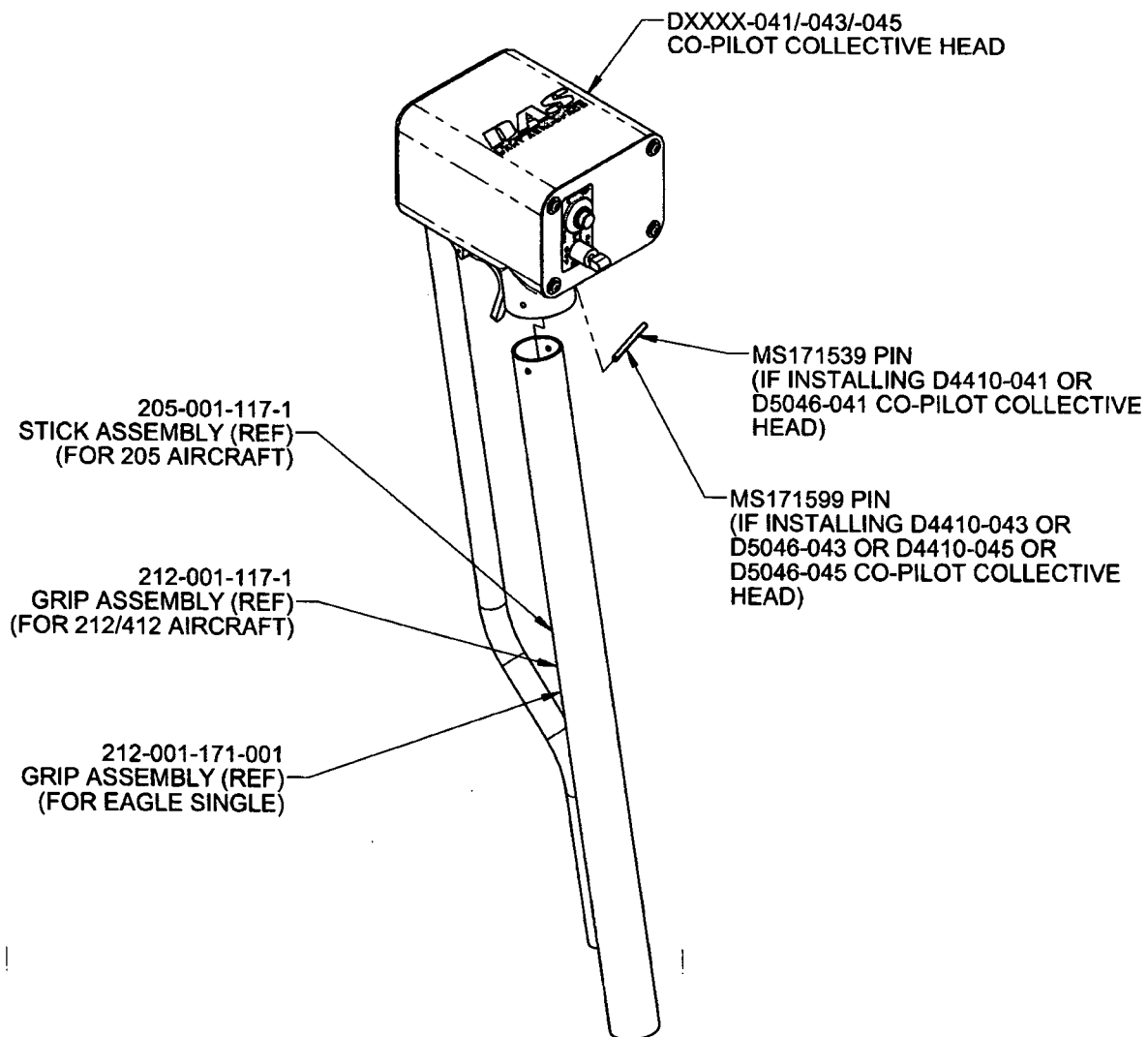


FIGURE 1 - Co-Pilot Collective Head Installation
D4410-041 SHOWN D4410-043/-045 AND D5046-041/-043/-045 SIMILAR)

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 2 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.	HS	LH PIC INSTALLATION	NTS
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4.0 PARTS LISTS

Amend Parts Lists for the following kits per tables below.

4.1 Large Collective Head Kits

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Part Number	Description
X					D205-803-011	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-013	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-015	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-017	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-019	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.2 Small Collective Head Kits

Qty -111	Qty -113	Qty -115	Qty -117	Qty -119	Part Number	Description
X					D205-803-111	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-113	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-115	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-117	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-119	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.3 Medium Collective Head Kits

Qty -211	Qty -213	Qty -215	Qty -217	Qty -219	Part Number	Description
X					D205-802-211	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-213	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-215	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-217	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-219	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	VS	
CHECKED	HS	DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9728 SHEET 3 OF 3
APPROVED	HS	TITLE SCALE
DE APPR.		LH PIC INSTALLATION NTS
DATE	15.06.24	COPYRIGHT © 2015 BY DART AEROSPACE LTD. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

Ship 03/11

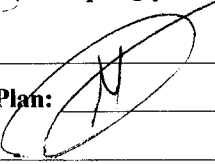
Work Order ID 142106

142106

Page 1

Thursday, February 25, 2016 12:22:24 PM

Item ID: D212-803-215 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Left Hand Pilot in Command - Medium/Standard Design, Complete 212/412
Start Date: 3/10/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 3/11/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan:  Date: 16-2-25 Tooling: Date: Run Start *NR1*
QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
DSI9728	A								
IIN-D212-803	D								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy blue file and type labels per PPP D212-803-215 CHG001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									

MCS FEB 26 2016
FEB 26 2016
DAS
6
9-59

7. PARTS LIST - MEDIUM COLLECTIVE HEAD KITS

Qty -211	Qty -213	Qty -215	Qty -217	Qty -219	Qty -221	Qty -223	Part Number	Description
X							D205-803-211	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X						D205-803-213	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X					D212-803-215	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X				D212-803-217	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X			D212-803-219	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
					X		D205-803-221	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
						X	D205-803-223	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
1	1						D5155-041	CO-PILOT COLLECTIVE HEAD ASSEMBLY (205)
		(1)	1				D5155-043	CO-PILOT COLLECTIVE HEAD ASSEMBLY (212)
				1			D5155-045	CO-PILOT COLLECTIVE HEAD ASSEMBLY (EAGLE SINGLE)
					1	1	D5155-047	CO-PILOT COLLECTIVE HEAD ASSEMBLY (205 WITH THE 204-001-290-5 STICK AND THROTTLE ASSY INSTALLED)
1	1			1	1	1	D5156-1	FACE PLATE
1	1			1	1	1	D5156-3	FACE PLATE
		(1)	1				D5156-5	FACE PLATE
		(1)	1				D5156-7	FACE PLATE
1	1			1	1	1	D4410-9	TRIGGER
1	1			1	1	1	D5055-1	PLACARD
1	1	(1)	1	1	1	1	D5055-3	PLACARD
		(1)	1				D5055-5	PLACARD
		(1)	1				D5055-7	PLACARD
		(1)	1				D5055-9	PLACARD
1	1	(1)	1	1			D4411-7	PLACARD
1		(3)					(27E151-T)	SWITCH (ALT P/N 212-075-153-3)
		(2)					2PB744-T2	SWITCH
		(3)					30-037-26	DIODE ASSEMBLY
1	1			1	1	1	30-037-3	DIODE ASSEMBLY
		(3)					AN565F8H9	SETSCREW
		(1)					AN961-6T	WASHER
1					1		51MXY-5-J	SWITCH
17		AR (21)			17		C100E2-39	SWITCH
17		AR (21)			17		M39029/31-240	PIN
		AR (2)					M39029/32-259	SOCKET
		AR (2)					M39029/31-228	PIN
1	1			1	1	1	M39029/32-247	SOCKET
		(3)					MS20253-1-065	PIN
1	1			1	1	1	MS21042L06	NUT
1	1	(1)	1	1	1	1	MS21042L08	NUT
		(2)					MS21042L3	NUT
1	1	(1)	1	1			MS21044N04	NUT
		(1)	1	1			MS21919WDG10	CLAMP
1	1						MS21919WDG19	CLAMP
		(1)					MS21919WDG20	CLAMP
		(2)					MS24523-27	SWITCH
4	4	(4)	4	4	4	4	MS24693-S7	SCREW
1	1	(1)	1	1	1	1	MS24693-24B	SCREW
		(1)					MS27039-1-07	SCREW
1					1		MS27212-1-31	TERMINAL BOARD
1					1		MS3126E14-19P	PLUG
		(2)					MS3120E14-19S	SOCKET
		(1)					MS3126E16-99P	PLUG
		(3)					MS3120E16-99S	SOCKET
2	2	(2)	2	2			MS3373-A1	STRIP
1	1		1	1	2	2	NAS1149D0363J1	WASHER
							MS24665-289	COTTER PIN
							D212-803	KIT-PAPERWORK

4.0 PARTS LISTS

REFERENCE **DAS**
27
9-89

Amend Parts Lists for the following kits per tables below.

4.1 Large Collective Head Kits

Qty -011	Qty -013	Qty -015	Qty -017	Qty -019	Part Number	Description
X					D205-803-011	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-013	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-015	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-017	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-019	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.2 Small Collective Head Kits

Qty -111	Qty -113	Qty -115	Qty -117	Qty -119	Part Number	Description
X					D205-803-111	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-113	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-115	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-117	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-119	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

4.3 Medium Collective Head Kits

Qty -211	Qty -213	Qty -215	Qty -217	Qty -219	Part Number	Description
X					D205-802-211	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
	X				D205-803-213	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
		X			D212-803-215	LEFT HAND PILOT IN COMMAND, COMPLETE KIT
			X		D212-803-217	LEFT HAND PILOT IN COMMAND, MECHANICAL ONLY
				X	D212-803-219	LEFT HAND PILOT IN COMMAND, EAGLE SINGLE
1	1				MS171539	PIN
		1	1	1	MS171599	PIN

DESIGN	VS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	VS		
CHECKED	HS	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9728	SHEET 3 OF 3
APPROVED	HS	TITLE	SCALE
DE APPR.		LH PIC INSTALLATION	NTS
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